

PTO/SB/32A (03-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1

of 7

Complete if Known

Application Number	10/666,333
Filing Date	September 17, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1641
Examiner Name	Malanie J. Yu
Attorney Docket Number	51871-000005

Examiner Initials*	Cite No.†	U. S. PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number	Publication Date MM-DD-YYYY		
		Number-Kind Code* (if known)			
OA	144	US- 4,948,843 A	08-14-1990	Roberts et al.	
	145	US- 4,950,587 A	08-21-1990	Roberts et al.	
	146	US- 5,408,109 A	04-18-1995	Heeger et al.	
	147	US- 5,612,221 A	03-18-1997	Simons et al.	
	148	US- 5,869,350 A	02-09-1999	Heeger et al.	
	149	US- 5,881,083 A	03-09-1999	Diaz-Garcia et al.	
	150	US- 5,968,762 A	10-19-1999	Jadamec et al.	
	151	US- 5,990,479 A	11-23-1999	Weiss et al.	
	152	US- 6,280,933 B1	08-28-2001	Glazer et al.	
	153	US- 6,534,329 B1	03-18-2003	Heeger et al.	
	154	US- 6,743,640 B1	06-01-2004	Whitten	
	155	US- 2002/0009728 A1	01-24-2002	Bittner	
	156	US- 2002/0034747 A1	03-21-2002	Bruchez	
	157	US- 2002/0150759 A1	10-17-2002	Jones	
	158	US- 2002/0177136 A1	11-28-2002	McBranch	
	159	US- 2003/0054413 A1	03-20-2003	Kumaraswamy	
	160	US- 2004/0241768 A1	12-02-2004	Whitten	
PA	161	US- 60/202,647	05-08-2000	Whitten	
	162	US- 60/226,902	08-23-2000	Whitten	

Examiner Initials*	Cite No.†	FOREIGN PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†
		Foreign Patent Document	Publication Date MM-DD-YYYY			
		Country Code* Number* Kind Code* (if known)				
OA	163	WO 99/35288 A1	07-15-1999	Minnesota Mining and Manufacturing Company		
	164	WO 00/14278 A1	03-16-2000	The Secretary of State for Defence		
	165	WO 00/66790 A1	11-09-2000	The Regents of the University of California		
	166	WO 02/081735 A2	10-17-2002	Infecto Diagnostic (I.D.I.) Inc.		
CA	167	WO 2004/001379 A2	12-31-2003	The Regents of the University of California		

Examiner Signature	<i>Alpha Asinovsky</i>	Date Considered	<i>May 5, 2005</i>
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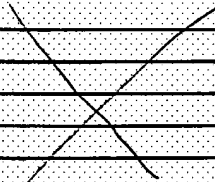
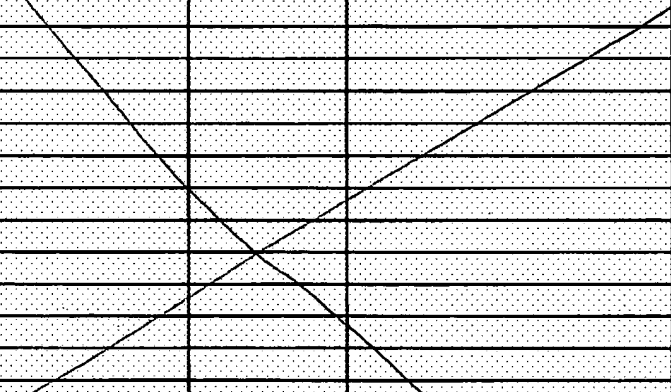
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Attorney Docket Number	51871-000005

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OA	168	US-	60/230,186	09-01-2000	Phillips	
	169	US-	60/237,000	09-29-2000	Bruchez	
	170	US-	60/240,216	10-13-2000	Bruchez	
	171	US-	60/276,090	03-16-2001	Jones	
	172	US-	60/314,094	08-23-2001	Burdick	
OA	173	US-	60/314,101	08-23-2001	Whitten	
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Examiner Signature	<u>Olga Asinovsky</u>	Date Considered	<u>May 5, 2005</u>
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Sheet 3

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NON PATENT LITERATURE DOCUMENTS

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C.A.	174	Wang et al., "Size-Specific Interactions Between Single- and Double-Stranded Oligonucleotides and Cationic Water-Soluble Oligofluorenes", Adv. Funct. Mater., June 2003, 13(6), 463-467.	
	175	Stork et al., "Energy Transfer in Mixtures of Water-Soluble Oligomers: Effect of Charge, Aggregation, and Surfactant Complexation", Adv. Mater., March 2002, 14(5), 361-366.	
	176	Leclerc, "Optical and Electrochemical Transducers Based on Functionalized Conjugated Polymers", Adv. Mater., 1999, 11(18), 1491-1498.	
	177	Balakin et al., "Conjugates of oligonucleotides with polyaromatic fluorophores as promising DNA probes", Biosensors & Bioelectronics, 1998, 13, 771-778.	
	178	Ho et al., "Colorimetric and Fluorimetric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives", Angew. Chem. Int. Ed., 2002, 41(9), 1548-1551.	
	179	McQuade et al., "Conjugated Polymer-Based Chemical Sensors", Chem. Rev., 2000, 100, 2537-2574.	
	180	Chen et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer", PNAS, October 1999, 96(22), 12287-12292.	
	181	Liu et al., "Effect of Chromophore-Charge Distance in the Energy Transfer Properties of Water-Soluble Conjugated Oligomers", J. Am. Chem. Soc., 2003, 125, 6705-6714.	
	182	Gaylord et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes", PNAS, August 2002, 99(17), 10954-10957.	
C.A.	183	Bronich et al., "Recognition of DNA Topology in Reactions between Plasmid DNA and Cationic Copolymers", J. Am. Chem. Soc., September 2000, 122(35), 8339-8343.	

Examiner Signature	<i>Olga Asinovsky</i>	Date Considered	<i>May 5, 2005</i>
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		Filing Date	September 17, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1641
		Examiner Name	Malanie J. Yu
Sheet 4	of 7	Attorney Docket Number	51871-000005

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
OA	184	Chen et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation", J. Am. Chem. Soc., 2000, 122, 9302-9303.	
	185	Gaylord et al., "Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies", J. Am. Chem. Soc., 2001, 123, 6417-6418.	
	186	Hong et al., "Water-Soluble Oligomer Dimers Based on Paracyclophane: A New optical Platform for Fluorescent Sensor Applications", J. Am. Chem. Soc., 2002, 124, 11868-11869.	
	187	Gaylord et al., "DNA Hybridization Detection with Water-Soluble Conjugated Polymers and Chromophore-Labeled Single-Stranded DNA", J. Am. Chem. Soc., 2003, 125, 898-900.	
	188	Zhou et al., "Fluorescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Wire Approach to Increased Sensitivity", J. Am. Chem. Soc., 1995, 117, 12593-12602.	
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	190	Hawkins et al., "Incorporation of a fluorescent guanosine analog into oligonucleotides and its application to a real time assay for the HIV-1 integrase 3'-processing reaction", Nucleic Acids Research, 1995, 23(15), 2672-2680.	
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	192	Gallot et al., "Poly(L-lysine) containing azobenzene units in the side chains: influence of the degree of substitution on liquid crystalline structure and thermotropic behaviour", Liquid Crystals, 1997, 23(1), 137-146.	
CA	193	Wang et al., "Biosensors from conjugated polyelectrolyte complexes", PNAS, January 2002, 99(1), 49-53.	

Examiner Signature	<i>Debra Asinowski</i>	Date Considered	<i>May 5, 2005</i>
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Sheet 5

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CA	194	Liu et al., "Methods for strand-specific DNA detection with cationic conjugation polymers suitable for incorporation into DNA chips and microarrays", PNAS Early Edition, December 2004, p. 1-5	
	195	Vehse et al., "Light Amplification by Optical Excitation of a Chemical Defect in a Conjugated Polymer", Adv. Mater., June 2004, 16(12), 1001-1004.	
	196	Liu et al., "Shape-Adapable Water-Soluble Conjugated Polymers", J. Am. Chem. Soc., 2003, 125, 13306-13307.	
	197	Liu et al., "Interpolyelectrolyte Complexes of Conjugated Copolymers and DNA: Platforms for Multicolor Biosensors", J. Am. Chem. Soc., 2004, 126, 1942-1943.	
	198	Huang et al., "High-Efficiency, Environment-Friendly Electroluminescent Polymers with Stable High Work Function Metal as a Cathode: Green- and Yellow-Emitting Conjugated Polyfluorene Polyelectrolytes and Their Neutral Precursors", J. Am. Chem. Soc., 2004, 126, 9845-9853.	
	199	Service, "DNA Analysis: Microchip Arrays Put DNA on the Spot", The American Association for the Advancement of Science, October 1998, 282(5388), 396-399.	
	200	Southern, "DNA chips: analysing sequence by hybridization to oligonucleotides on a large scale", TIG, March 1996, 12(3), 110-115.	
	201	Epstein et al., "Microarray technology - enhanced versatility, persistent challenge", Current Opinion in Biotechnology, 2000, 11, 36-41.	
	202	Heeger et al., "Making Sense of polymer-based biosensors", PNAS, October 1999, 96(22), 12219-12221.	
CA	203	Patel et al., "Energy transfer analysis of Fos-Jun dimerization and DNA binding", Proc. Natl. Sci. USA, July 1994, 91, 7360-7364.	

Examiner Signature	<i>Alisa Asinovsky</i>	Date Considered	<i>May 5, 2005</i>
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CA	204	Lohse et al., "Fluorescein-Conjugated Lysine Monomers for Solid Phase Synthesis of Fluorescent Peptides and PNA Oligomers", Bioconjugate Chem., 1997, 8, 503-509.	
	205	Smith et al., "The synthesis of oligonucleotides containing an aliphatic amino group at the 5' terminus: synthesis of fluorescent DNA primers for use in DNA sequence analysis", Nucleic Acids Research, 1985, 13(7) 2399-2412.	
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	208	Nilsson et al., "Chip solution detection of DNA hybridization using a luminescent zwitterionic polythiophene derivative", Nature Materials, June 2003, 2, 419-424 (Supplementary information pp. 1-2).	
	209	Dore et al., "Fluorescent Polymeric Transducer for the Rapid, Simple, and Specific Detection of Nucleic Acids at the Zeptomole Level", J. Am. Chem. Soc., 2004, 126, 4240-4244.	
	210	Ranade et al., "High-Throughput Genotyping with Single Nucleotide Polymorphisms", Genome Research, 2001, 11, 1262-1268.	
	211	Schork et al., "Single nucleotide polymorphisms and the future of genetic epidemiology", Clin. Genet., 2000, 58, 250-264.	
	212	Wang et al., "Optically Amplified RNA-Protein Detection Methods Using Light-Harvesting Conjugated Polymers", Adv. Mater., September 2003, 15(17), 1425-1428.	
CA	213	Liu et al., "Homogeneous Fluorescent-Based DNA Detection with Water-Soluble Conjugated Polymers", Chem. Mater., 2004, 16, 4467-4476.	

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C.A.	214	Wolcott, "Advances in Nucleic Acid-Based Detection Methods", Clinical Microbiology Reviews, October 1992, 5(4), 370-386.	
	215	Umek et al., "Electronic Detection of Nucleic Acids, A Versatile Platform for Molecular Diagnostics", Journal of Molecular Diagnostics, May 2001, 3(2), 74-84.	
	216	Stevens et al., "Exciton dissociation mechanisms in the polymeric semiconductors poly(9,9-dioctylfluorene) and poly(9,9-dioctylfluorene-co-benzothiadiazole)", Physical Review B, April 2001, 63, 1-18.	
	217	Wang, "Survey and Summary From DNA biosensors to gene chips", Nucleic Acids Research, 2000, 28(16), 3011-3016.	
C.A.	218	Beier et al., "Versatile derivatisation of solid support media for covalent bonding on DNA-microchips", Nucleic Acids Research, 1999, 27(9), 1970-1977.	

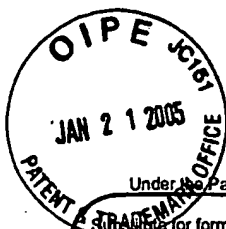
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Instructions for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/666,333
Filing Date	September 17, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1641
Examiner Name	Malanie J. Yu
Attorney Docket Number	51871-000005

Sheet	1	of	11
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
OA	1	BALAKIN, K.V. et al. Conjugates of oligonucleotides with polyaromatic fluorophores as promising DNA probes ¹ ; <i>Biosensors and Bioelectronics</i> (1998) 13:771-778.	
	2	BARDEA, A. et al. Sensing and amplification of oligonucleotide-DNA interactions by means of impedance spectroscopy: a route to a Tay-Sachs sensor; <i>Chem. Commun.</i> (1999) 21-22.	
	3	BAUR, J.W., et al. Thin-Film Light-Emitting Devices Based on Sequentially Adsorbed Multilayers of Water-Soluble Poly (p-phenylene)s; <i>Advanced Materials</i> (1998) 10:17:1452-1455.	
	4	BEHR, J.P. Synthetic Gene-Transfer Vectors; <i>Acc. Chem. Res.</i> (1993) 26: 274-278.	
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	13	BRONICH, T.K. et al. Recognition of DNA Topology in Reactions between Plasmid DNA and Cationic Copolymers; <i>J. Am. Chem. Soc.</i> (2000) 122:35:8339-8343.	
OA	14	CARDULLO, R.A. et al. Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer; <i>Proc. Natl. Acad. Sci. USA</i> (1988) 85:8790-8794.	

Examiner's
Signature

Olga Asinowsky

Date

Considered

May 5, 2005

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		Art Unit	1641		
		Examiner Name	Malanie J. Yu		
Sheet	2	of	11	Attorney Docket Number	51871-000005

NON PATENT LITERATURE DOCUMENTS					T ²
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OA	15	CASTRO, A. and WILLIAMS, J.G.K. Single-molecule detection of specific nucleic acid sequences in unamplified genomic DNA; <i>Anal. Chem.</i> (1997) 69:19:3915-3920.			
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Examiner's Signature	Olga Asinovsky	Date Considered	May 5, 2005
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		Examiner Name	Malanie J. Yu
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OA	29	EGHOLM, M. et al. Recognition of Guanine and Adenine in DNA by Cytosine and Thymine Containing Peptide Nucleic Acids (PNA); <i>J. Am. Chem. Soc.</i> (1992) 114:9677-9678.	
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	35	FRANKEL, A.D. Peptide models of the Tat-TAR protein-RNA interaction; <i>Prot. Sci.</i> (1992) 1:1539-1542.	
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	39	GANACHAUD, F. et al. Adsorption of Single-Stranded DNA Fragments onto Cationic Aminated Latex Particles; <i>Langmuir</i> (1997) 13:701-707.	
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	41	GAYLORD, B.S. et al. Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies; <i>J. Am. Chem. Soc.</i> (2001) 123:6417-6418.	
OA	42	GAYLORD, B.S. et al. DNA Hybridization Detection with Water-Soluble Conjugated Polymers and Chromophore-Labeled Single-Stranded DNA; <i>J. Am. Chem. Soc.</i> (2003) 125:896-900.	

Examiner's Signature	<i>Alisa Aginovsky</i>	Date Considered	<i>May 5, 2005</i>
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Examiner Name	Malanie J. Yu
Attorney Docket Number	51871-000005

Sheet

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OA	43	GERSHON, H. et al. Mode of Formation and Structural Features of DNA-Cationic Liposome Complexes Used for Transfection; <i>Biochemistry</i> (1993) 32:7143-7151.	
	44	GIESEN, U. et al. A formula for thermal stability (T_m) prediction of PNA/DNA duplexes; <i>Nucleic Acids Res.</i> (1998) 26:21:5004-5006.	
	45	GÖSSL, L. et al. Molecular Structure of Single DNA Complexes with Positively Charged Dendronized Polymers; <i>J. Am. Chem. Soc.</i> (2002) 124:6860-6865.	G
	46	HAGE, D.S.. Immunoassays; <i>Anal. Chem.</i> (1999) 71:12:294R-304R.	
	47	HANVEY, J.C. et al. Antisense and Antigene Properties of Peptide Nucleic Acids; <i>Science</i> (1992) 258:1481-1485.	
	48	HARADA, A. and KATAOKA, K. Chain Length Recognition: Core-Shall Supramolecular Assembly from Oppositely Charged Block Copolymers; <i>Science</i> (1999) 283:65-67.	
	49	HO, H.A. et al. Colorimetric and Fluorometric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives; <i>Angew. Chem. Int. Ed.</i> (2002) 41:9:1548-1551.	
	50	IZUMRUDOV, V.A. et al. The influence of chain length of a competitive polyanion and nature of monovalent counterions on the direction of the substitution reaction of polyelectrolyte complexes; <i>Makromol. Chem., Rapid Commun.</i> (1988) 9:7-12.	
	51	IZUMRUDOV, V.A. et al. Competitive Reactions in Solutions of DNA and Water-Soluble Interpolyelectrolyte Complexes; <i>Biopolymers</i> (1995) 35:523-531.	
	52	IZUMRUDOV, V.A. et al. Competitive Displacement of Ethidium Cations Intercalated in DNA by Polycations; <i>Dokl. Phys. Chem.</i> (1995) 342:Nos. 4-6: 150-153.	
	53	IZUMRUDOV, V.A. et al. Ethidium Bromide as a Promising Probe for Studying DNA Interaction with Cationic Amphiphiles and Stability of the Resulting Complexes; <i>Langmuir</i> (2002) 18:10348-10356.	
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OA	56	JAIN, C. and BELASCO, J.G. Rapid Genetic Analysis of RNA-Protein Interactions by Translational Repression in <i>Escherichia coli</i> ; <i>Methods Enzymol.</i> (2000) 318:309-332.	

Examiner's
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Olga Asinovsky

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OA	57	JENKINS, Y. and BARTON, J.K. A Sequence-Specific Molecular Light Switch: Tethering of an Oligonucleotide to a Dipyrrophenazine Complex of Ruthenium (II); <i>J. Am. Chem. Soc.</i> (1992) 114:8736-8738.	
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	59	KABANOV, A.V. et al. DNA Interpolyelectrolyte Complexes as a Tool for Efficient Cell Transformation; <i>Biopolymers.</i> (1991) 31:1437-1443.	
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Examiner's Signature	Alpa Asimovsky	Date Considered	May 5, 2005
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OA	71	LEULLIOT, N. and VARANI, G. Current Topics in RNA-Protein Recognition: Control of Specificity and Biological Function through Induced Fit and Conformational Capture; <i>Biochemistry</i> (2001) 40:27:7947-7956.	
	72	LIU, B. et al. Effect of Chromophore-Charge Distance on the Energy Transfer Properties of Water-Soluble Conjugated Oligomers; <i>J. Am. Chem. Soc.</i> (2003) 125:6705-6714.	
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D. P. Asinovsky

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Application Number	10/666,333
Filing Date	September 17, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1641
Examiner Name	Malanie J. Yu
Attorney Docket Number	51871-000005

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OA	85	MILLER, I.R. and BACH, D. Interaction of DNA with Heavy Metal Ions and Polybases: Cooperative Phenomena; <i>Biopolymers</i> . (1968) 6:169-179.	
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missing	96	PETERLINZ, K.P. et al. Observation of Hybridization and Dehybridization of Thiol-Tethered DNA using Two-Color Surface Plasmon Resonance Spectroscopy; <i>J. Am. Chem. Soc.</i> (1997) 119:3401-3402.	
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OA	108	SEYMOUR, L.W. et al. Cationic block copolymers as self-assembling vectors for gene delivery; <i>Self-assembling Complexes for Gene Delivery</i> ; (1998) 11:219-239.	
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OA	122	TATON, T.A. et al. Two-Color Labeling of Oligonucleotide Arrays via Size-Selective Scattering of Nanoparticle Probes; <i>J. Am. Chem. Soc.</i> (2001) 123:5164-5165.	
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Alex Asinovsky

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CA	138	WHITCOMBE, D. et al. Detection of PCR products using self-probing amplicons and fluorescence; <i>Nat. Biotechnol.</i> (1999) 17:804-807.	
	139	WOLFERT, M.A. et al. Polyelectrolyte Vectors for Gene Delivery: Influence of Cationic Polymer on Biophysical Properties of Complexes Formed with DNA; <i>Bioconjugate Chem.</i> (1999) 10:993-1004.	
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